T09T50 8Th9260

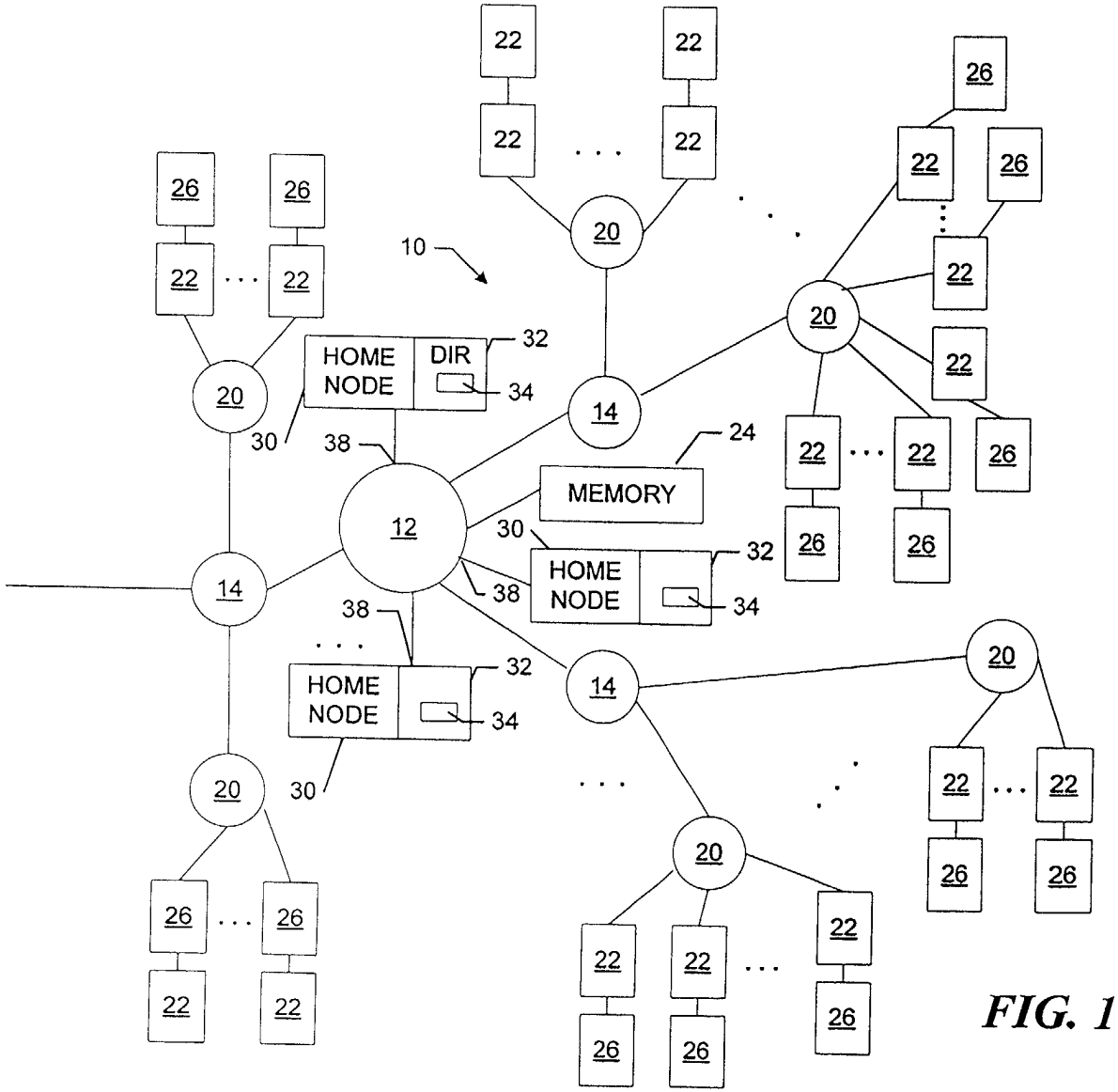


FIG. 1

FIG. 2

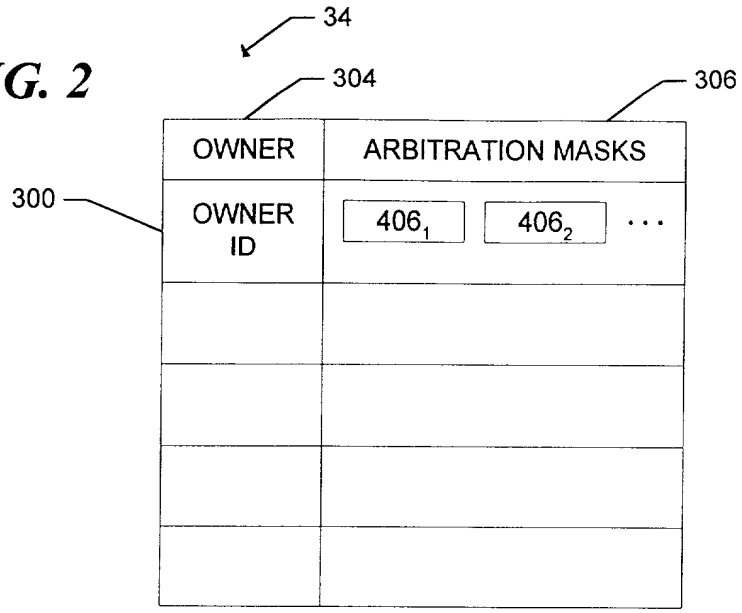

34
304
306
OWNER
ARBITRATION MASKS
300
OWNER ID
406$_1$
406$_2$
...

FIG. 3

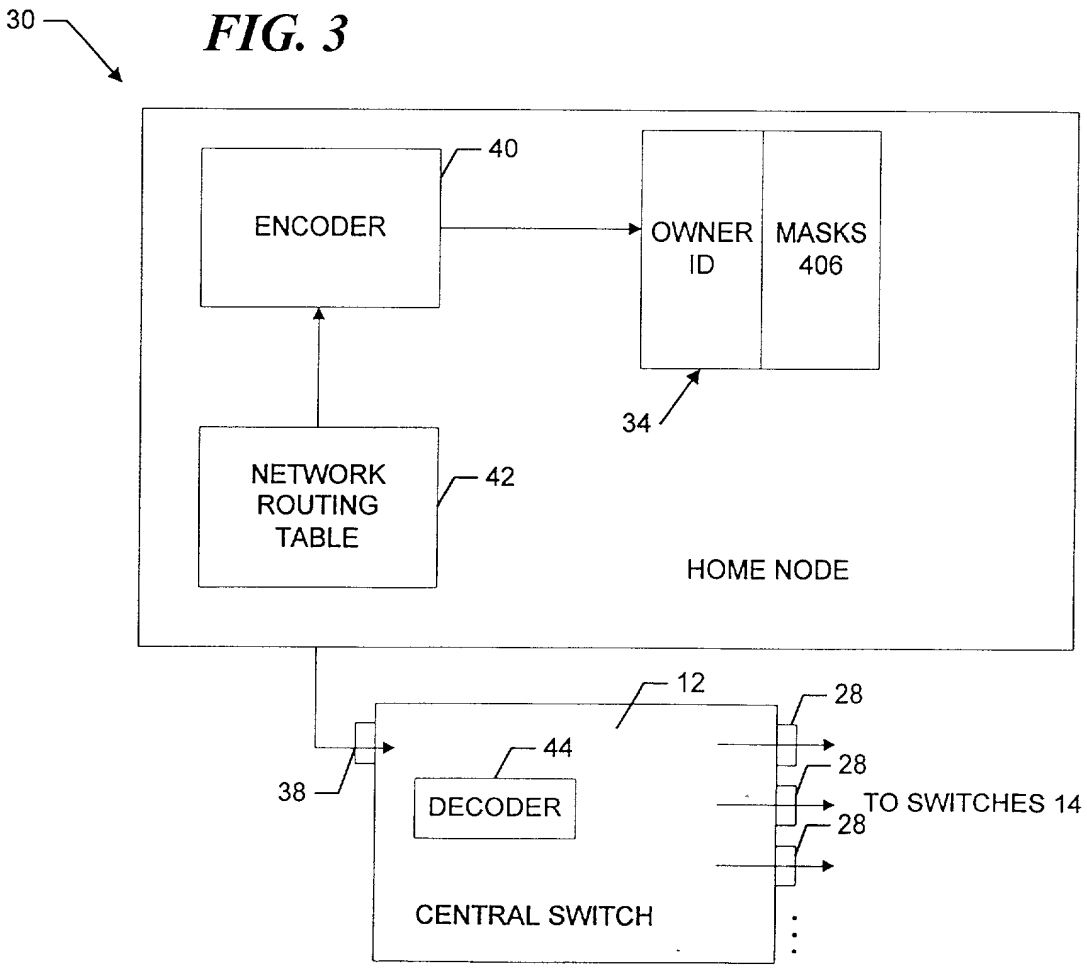
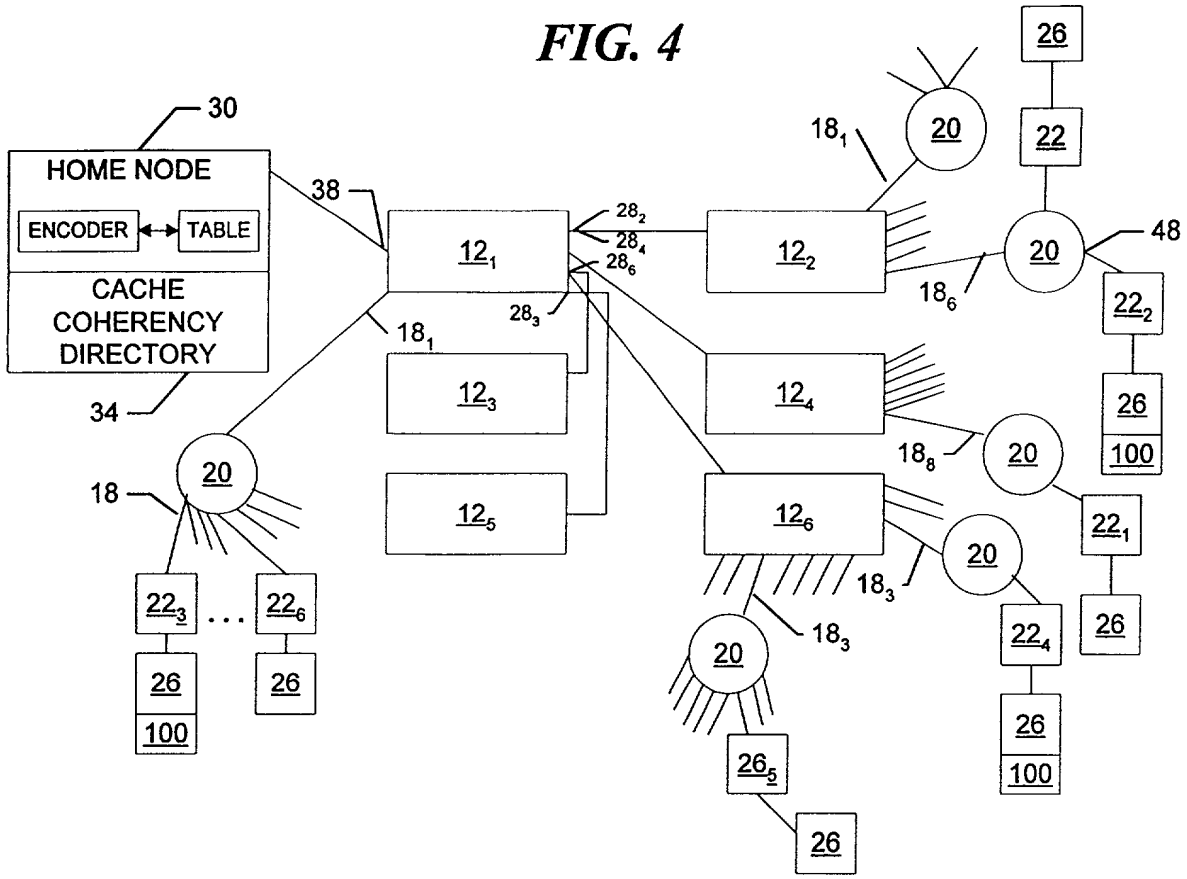

30
ENCODER
40
OWNER ID
MASKS 406
34
NETWORK ROUTING TABLE
42
HOME NODE
12
28
28
28
44
38
DECODER
TO SWITCHES 14
CENTRAL SWITCH

FIG. 4


30
HOME NODE
ENCODER
TABLE
CACHE COHERENCY DIRECTORY
34
38
12_1
12_2
12_3
12_4
12_5
12_6
28_2
28_4
28_6
28_3
18_1
18_6
18_8
18_3
18
20
22
48
22_1
22_2
22_3
22_4
22_6
26
100
26_5

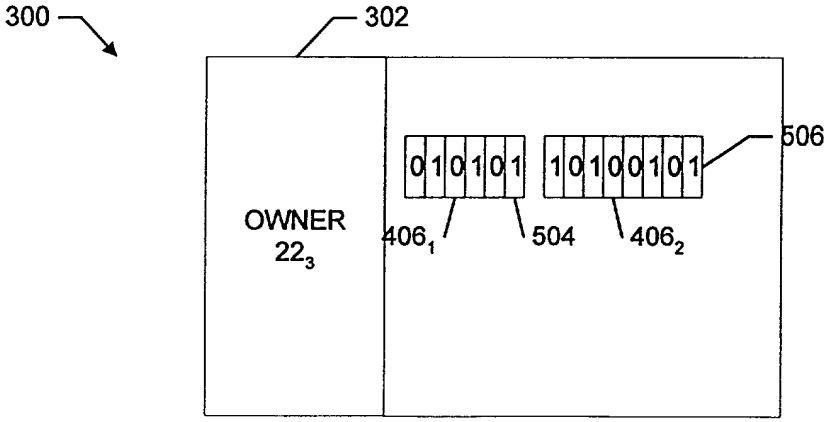

300
302
OWNER
22_3
0 1 0 1 0 1
1 0 1 0 0 1 0 1
506
406_1
504
406_2

FIG. 5

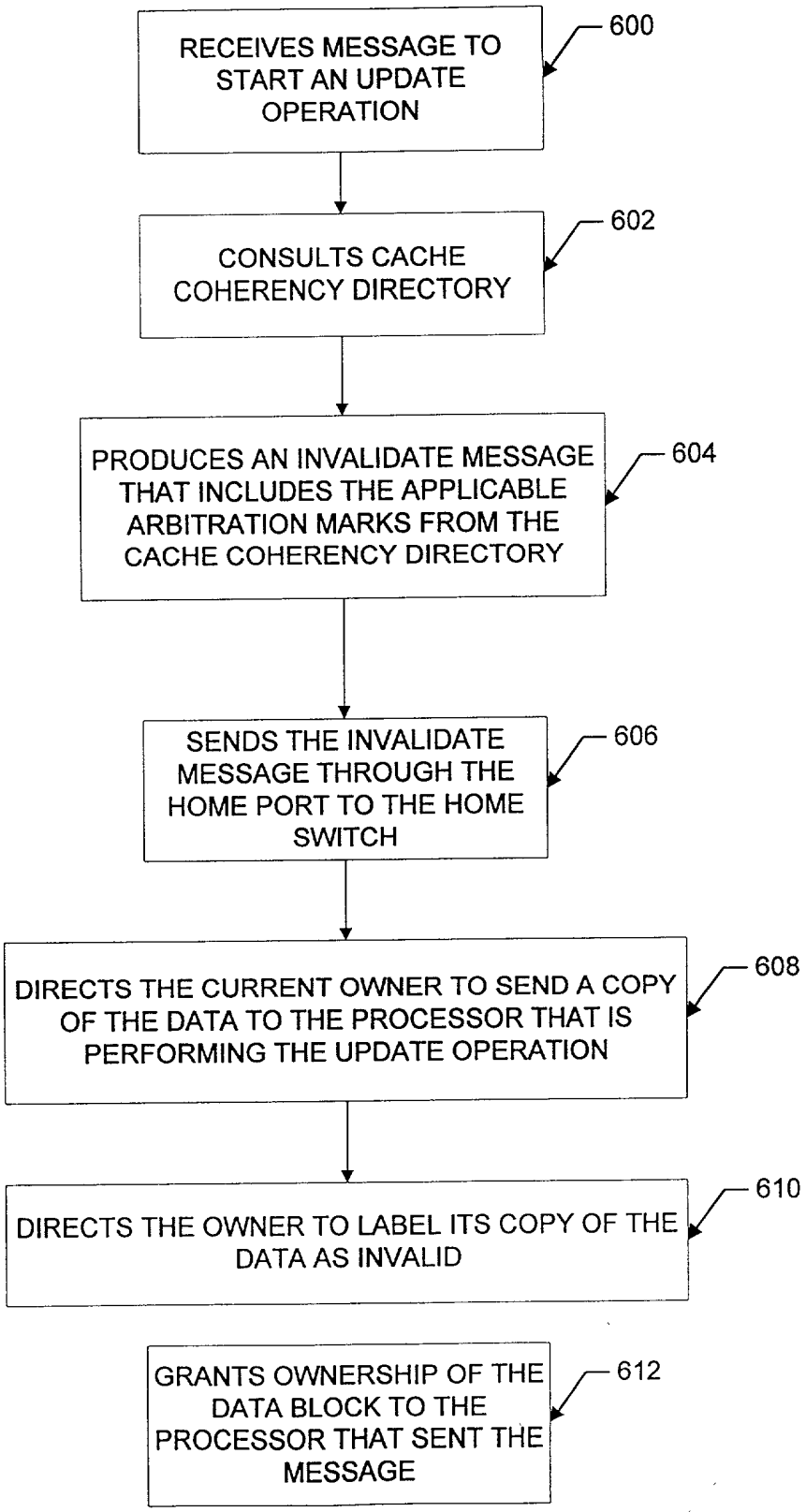

RECEIVES MESSAGE TO START AN UPDATE OPERATION
600
CONSULTS CACHE COHERENCY DIRECTORY
602
PRODUCES AN INVALIDATE MESSAGE THAT INCLUDES THE APPLICABLE ARBITRATION MARKS FROM THE CACHE COHERENCY DIRECTORY
604
SENDS THE INVALIDATE MESSAGE THROUGH THE HOME PORT TO THE HOME SWITCH
606
DIRECTS THE CURRENT OWNER TO SEND A COPY OF THE DATA TO THE PROCESSOR THAT IS PERFORMING THE UPDATE OPERATION
608
DIRECTS THE OWNER TO LABEL ITS COPY OF THE DATA AS INVALID
610
GRANTS OWNERSHIP OF THE DATA BLOCK TO THE PROCESSOR THAT SENT THE MESSAGE
612

FIG. 6